KO24095

510(k) Summary

JAN 0 9 2003

Trade Name: Vision-Sciences EndoSheath® System for use with Flexible ENT

Scopes

Sponsor: Vision-Sciences, Inc.

9 Strathmore Road Natick, MA 01760 Registration #1223490

Device Generic Name: Disposable sheath for flexible ENT scopes

Classification: According to Section 513 of the Federal Food, Drug, and

Cosmetic Act, the device classification is Class II.

Predicate Devices: K990354 – Modified EndoSheath® for Flexible ENT Scopes

K012543 – EndoSheath® System for Flexible ENT Scopes

K021344 - EndoSheath® System for Flexible Fiberoptic Bronchoscope

Manufactured by: Vision-Sciences, Inc. 9 Strathmore Road Natick, MA 01760

Product Description: The device system described in this 510(k) consists of modified sterile, disposable sheaths designed to fit various models of flexible fiberoptic ENT scopes. The use of an EndoSheath® eliminates the need for high-level disinfection of the scope following each procedure. The disposable sheath features a specially designed working channel that allows a "visual-only" diagnostic flexible ENT scope to be utilized as a multipurpose diagnostic and therapeutic device

Indications for Use:

The EndoSheath® System provides a sterile, disposable protective covering for the scope to be used during flexible endoscopic examination of the upper airway, vocal cords and/or nasal passages.

Safety and Performance:

This submission is a Special 510(k): Device Modification as described in FDA's guidance document entitled "The New 510(k) Paradigm - Alternate Approaches to Demonstrating Substantial Equivalence in Premarket Notifications." In support of this 510(k), Vision-Sciences has provided certification of compliance to 21 CFR 820.30 Design Control requirements, and a description of the internal Risk Analysis procedure. Validation testing including microbial barrier testing, sheath tensile/elongation testing and sheath leak/burst testing is included in Design Validation and Verification planning.

Conclusion:

Based on the indications for use, technological characteristics, and comparison to predicate devices, the modified VSI EndoSheath® System for use with Flexible ENT Scopes has been shown to be safe and effective for its intended use.

Figure D.2 Design/Materials Comparison

| Characteristic | Proposed Modified VSI | Currently Marketed, Unmodified | Currently Marketed, Unmodified |
|-------------------------------|---|--|---|
| | Channel ENT EndoSheath® System (Current Submission) | VSI ENT EndoSheath® System (K990354, K012534) | VSI Bronchoscope EndoSheath® System (K021344) |
| Sheath material | Same as VSI predicate devices | Thermoplastic elastomer | Thermoplastic elastomer |
| Window material | , <u> </u> | Thermoplastic polymer | Thermoplastic polymer |
| Luer connector material | Same as VSI predicate devices | N/A – no luer connector | Thermoplastic polymer |
| Proximal connector material | Same as VSI predicate devices | Thermoplastic polymer | Thermoplastic polymer |
| Working channel ID | | N/A – no working channel | 2.1 mm |
| Working channel materials | Same as VSI predicate devices | N/A – no working channel | Thermoplastic polymer |
| UV cure adhesives | Same family of adhesives as VSI | Yes | Yes |
| | predicate devices | | |
| Support tube material | Identical to VSI predicate devices | Thermoplastic polymer | Thermoplastic polymer |
| Microbial barrier claim | Yes | Yes | Yes |
| Mating scope models | Vision-Sciences ENT-2000/E-F100 | Vision-Sciences ENT-2000/E-F100 | VSI Bronchoscope |
| | Olympus ENF-P4/P3/P2 | Olympus ENF-P4/P3/P2 | |
| | Pentax VNL-1330 and FNL- | Pentax VNL-1330 and FNL- | |
| | 10S/10BS/10P2/10RP3/13S | 10S/10BS/10P2/10RP3/13S | |
| | Welch Allyn RL-150 | Welch Allyn RL-150 | |
| | Karl Storz 11101RP/11101RP1 | Karl Storz 11101RP/11101RP1 | |
| Sheath installation method | Slides on and off (no vacuum/pressure | Slides on and off (no vacuum/pressure | Slides on and off (no vacuum/pressure |
| | source required) | source required) | source required) |
| Minimum sheath wall thickness | 002" | .002" | .002" |
| Indications for Use | For use in flexible, endoscopic | For use in flexible, endoscopic | Is used during flexible endoscopic |
| | examination of the upper airway, vocal | examination of the upper airway, vocal | examination of the trachea and other |
| | cords and/or nasal passages. | cords and/or nasal passages. | major passages of the lungs, to gather |
| | | | specimens, and/or to find and |
| | | | endoscopically remove foreign objects |
| | | | from the lungs. |



Food and Drug Administration 9200 Corporate Boulevard Rockville MD 20850

JAN 0 9 2003

Vision-Sciences, Inc. c/o Pamela Papineau, RAC Delphi Medical Device Consulting, Inc. 5 Whitcomb Avenue Ayer, MA 01432

Re: K024095

Trade/Device Name: Endosheath System for use with Flexible ENT Scopes

Regulation Number: 21 CFR 874.4760

Regulation Name: Nasopharyngoscope (flexible or rigid) and accessories

Regulatory Class: Class II

Product Code: EOB

Dated: December 6, 2002 Received: December 12, 2002

Dear Ms. Papineau:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set

forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050. This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Office of Compliance at (301) 594-4692. Additionally, for questions on the promotion and advertising of your device, please contact the Office of Compliance at (301) 594-4639. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). Other general information on your responsibilities under the Act may be obtained from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its Internet address http://www.fda.gov/cdrh/dsma/dsmamain.html

Sincerely yours

A. Ralph Rosenthal, M.D.

Director

Division of Ophthalmic and Ear, Nose and Throat Devices Office of Device Evaluation Center for Devices and Radiological Health

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| | 510(k) Number (if known): <u>K024095</u> |
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| | Indications for Use: |
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| | Concurrence of CDRH, Office of Device Evaluation (ODE) |
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| | Prescription Use OR Over-the -Counter Use |
| | (Per 21 CFR 801.109) |
| . av | Jan H boler ision Sign-Off) |
| Divis | sion of Ophthalmic Ear, e and Throat Devises |
| | (k) Number <u>Ko 2 4095</u> |
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